



Patent Laid-Open Publication No. 07-069631 (JP 07-069631A)

Laid-Open Publication Date: March 14, 1995

Patent Application No. 05-278224

Filing Date: November 08, 1993

Domestic Priority No. 05-159678

Domestic Priority Date: June 29, 1993

Applicant: Sumitomo Chemical Co., Ltd.

SPECIFICATION

[TITLE OF THE INVENTION]

FLAKE-SHAPED ELECTRICALLY-CONDUCTIVE ZINC OXIDE AND
PRODUCTION METHOD THEREFOR

[ABSTRACT]

[FEATURE]

A flake-shaped electrically-conductive zinc oxide comprises: a flake-shaped zinc oxide which contains aluminum in an amount of 0.0001 to 0.3 moles per mole of zinc atom, and has an average thickness of 0.1 to 2 μm , an average particle size of 1 to 100 μm and an aspect ratio of 3 to 100; and at least one oxide of a metal selected from the group consisting of antimony, indium, cerium, gallium, tin, zirconium and titanium, and deposited onto a surface of the flake-shaped zinc oxide in an amount of 0.00005 to 0.05 moles per mole of zinc atom.

[EFFECT]

The present invention makes it possible to provide a whitish flake-shaped electrically-conductive zinc oxide exhibiting a high electrical conductivity based on a specific electric resistivity of less than $2.0 \times 10^2 \text{ O} \cdot \text{cm}$ in flak form.